#### Handout#2: Behaviorism

## I. Behaviorism

In general, the behaviorist holds that:

- (b1) Having a mind is reducible to having certain behavioral dispositions.
- (b2) Mental states are nothing over and above behavioral dispositions.

## What is a dispositional state?

A dispositional state of an object(/event/process) is a tendency to exhibit a response to an antecedent condition or stimulus.

Object o has dispositional property  $d =_{df} Under normal conditions, if o is in condition C at <math>t_0$ , then o is in state R at  $t_1$ .

['under normal conditions' is often referred to as a ceteris paribus clause]

## examples

fragility:

x is fragile iff *ceteris paribus* if x is struck, x will break.

solubility:

x is soluble iff *ceteris paribus* if x is placed in water, x will dissolve.

being ticklish:

x is ticklish iff *ceteris paribus* if x is tickled, x will laugh, contort, and try to get away.

## II. Some motivations for behaviorism

- The problem of "other minds" access to other people's mental states is problematic. Skepticism/solipsism can be avoided by analyzing mental states as behavioral states.
- Problems with dualism (esp. causal relations problem)
- Difficulties with introspective accounts of psychology, which were popular in the late 19th and early 20th century (esp. in the work of William James)
- Ontological or methodological parsimony

# III. Three types of behaviorism

# Logical behaviorism:

(Strong) The meaning of psychological expressions/statements can be given purely in terms of observable physical behavior.

(Weak) There exist entailments between psychological statements and behavioral statements.

**Ontological behaviorism**: Mental states *just are* behavioral dispositions.

There are no mental facts over and above facts about behavioral dispositions.

**Methodological/scientific behaviorism**: Psychological theories *ought* to only talk about observable, quantifiable phenomena (e.g. stimuli, responses, and patterns of reinforcement).

Note: These are not mutually exclusive.

# IV. Carl Hempel's Logical behaviorism

(LB): Every meaningful psychological expression can be *translated without loss of content* using terms that specify only behavioral/observable phenomena

### IV.0 Verificationism

(V): The semantic content of a(declarative) sentence is exhausted by its verification procedures.

# IV.1 Hempel's Argument for Logical Behaviorism (from J. Kim)

- (1) Verificationism is true.
- (2) If a sentence has meaning, it must be intersubjective i.e. public.
- (3) Only physical/behavioral phenomena are available for securing the connection between the meanings of our words and the world.
- (4) So, the meanings of our psychological statements are to be specified in terms of the available physical/observable behaviors.

#### IV.2 Some Criticisms of Verificationism

- Verificationism is false, as there are semantically significant sentences for which there are no verification procedures.
- The meaning of a sentence cannot both be its verification procedures and intersubjectively sharable, given that verification procedures are sensitive to background beliefs, which vary within individuals/communities.
- o Verificationism is self-refuting.

## IV.3 LB at work

Consider a psychological statement involving a mental term:

(P) Paul has a toothache.

The LBist claims that (P) is semantically equivalent to, or – weaker -- entails a sentence along the lines of:

(P\*) Paul grimaces, holds his mouth, and/or responds "yes" when asked "Do you have a tootheache?"

# IV. A few criticisms of LB

- $\circ$  Exhibiting behaviors  $B_1...B_n$  is not *sufficient* for being in mental state M (e.g. pain). e.g. the actor case
- $\circ$  Exhibiting behaviors  $B_1...B_n$  is not *necessary* for being in mental state  $M_i$ . e.g. Hilary Putnam's super Spartans
- Mental states cause and explain behavior, so mental states can't be identified with behavior.

Consider the analogy to vacuous explanations of fragility.

The mind is holistic; mental states cannot be paired 1:1 with proprietary behaviors. Any connection between, say, a subject's beliefs/desires and an action are defeasible.